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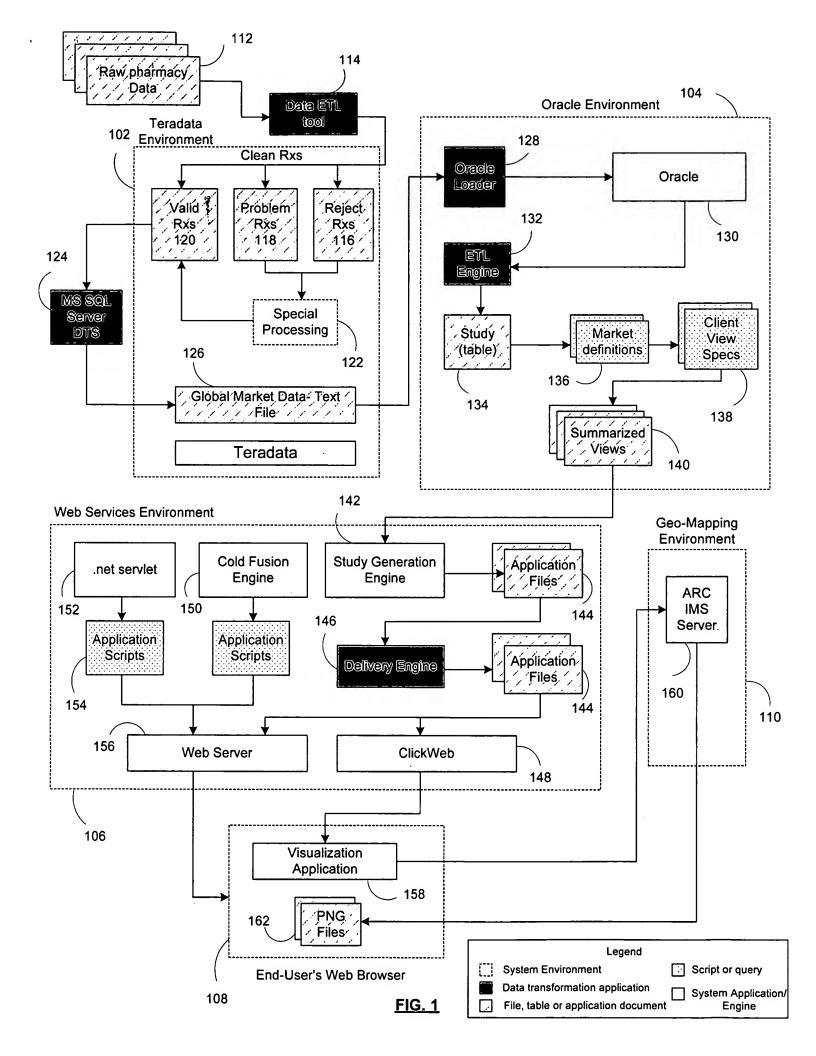
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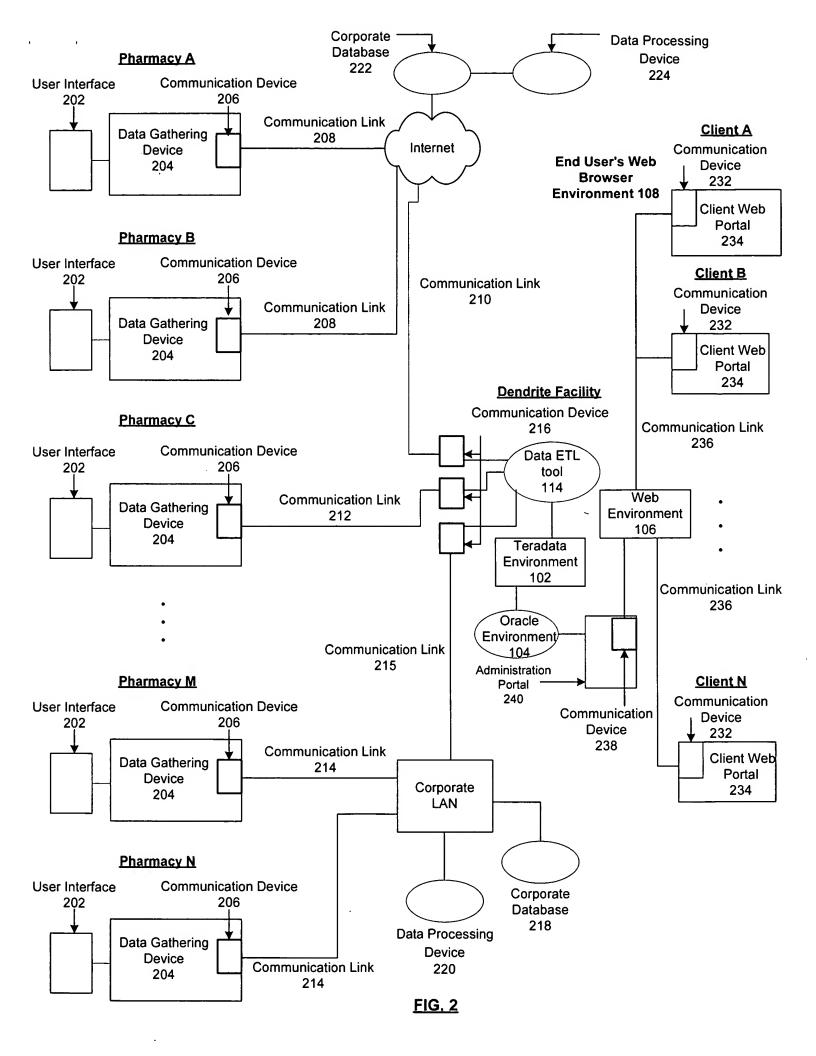
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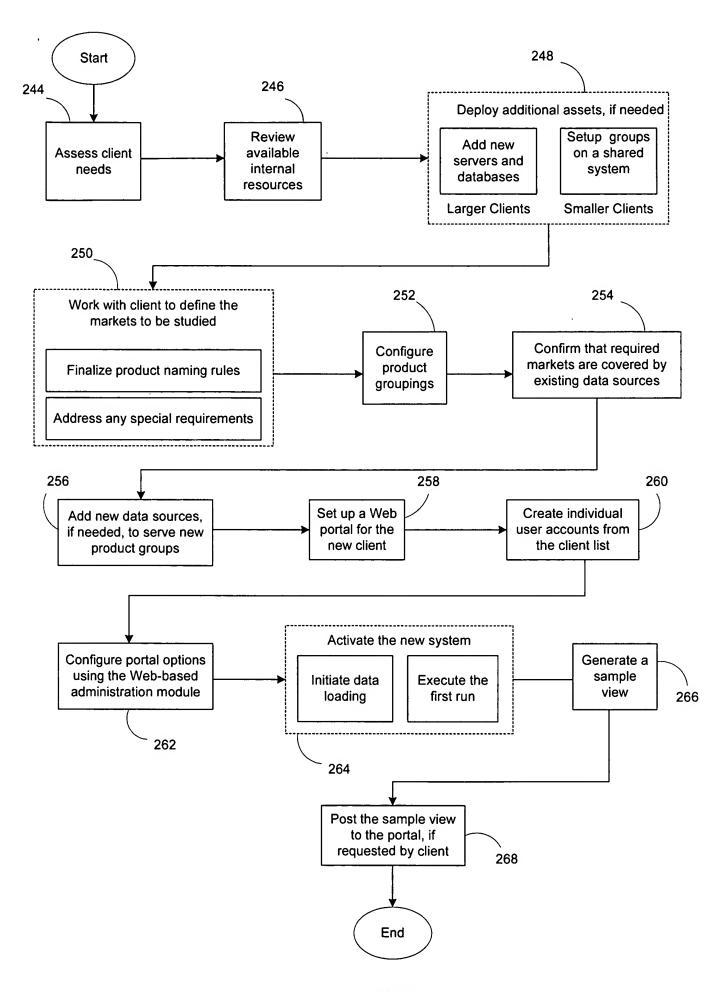
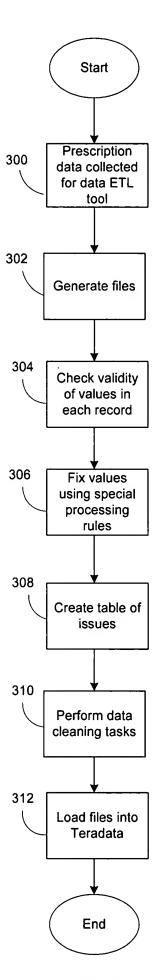
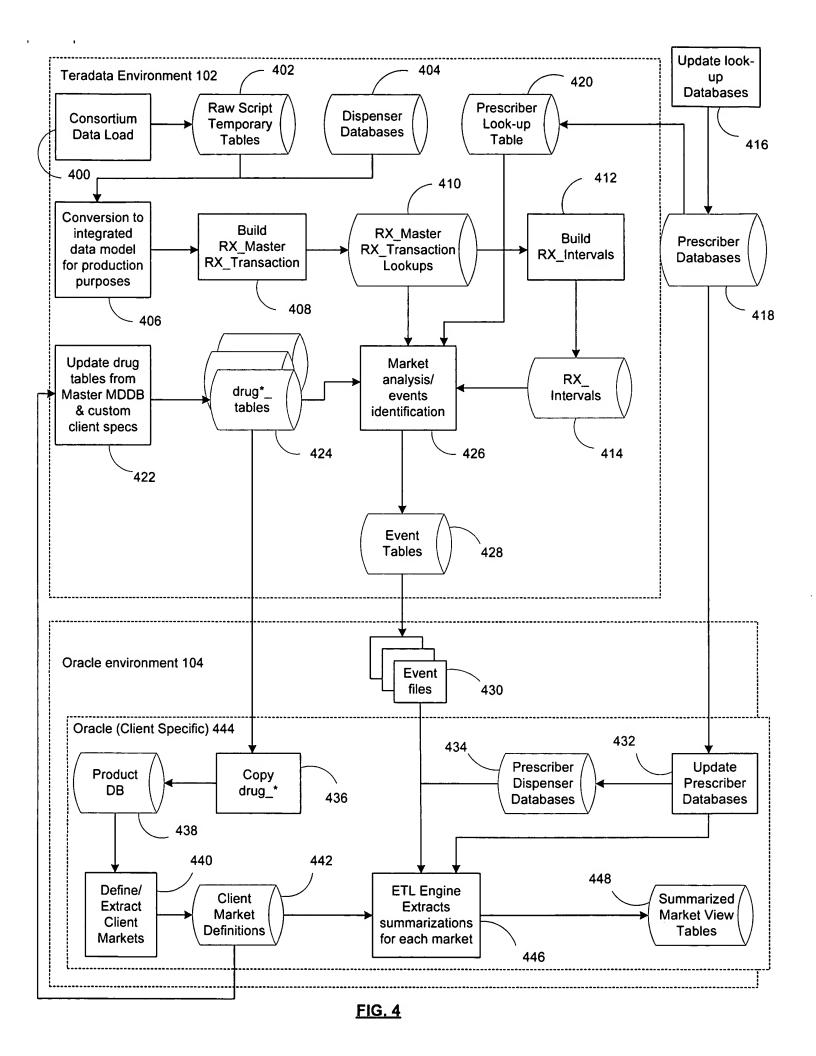


FIG. 2a



**FIG. 3** 



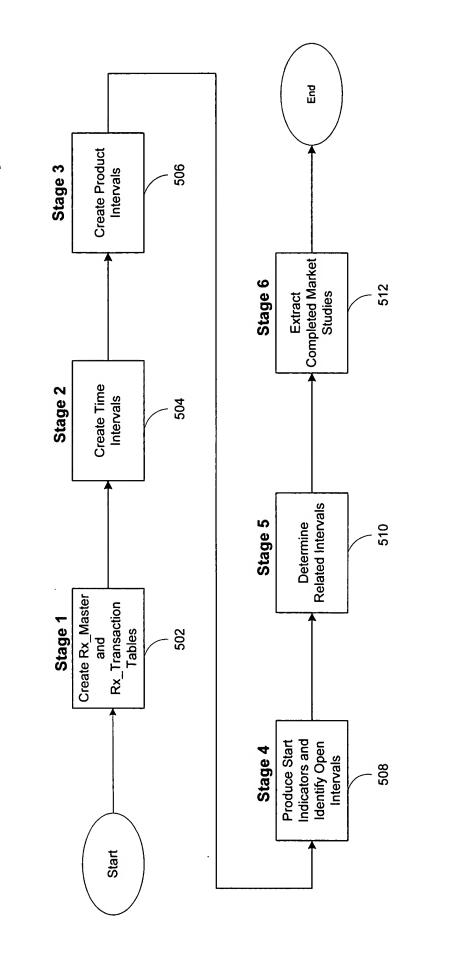


FIG. 5

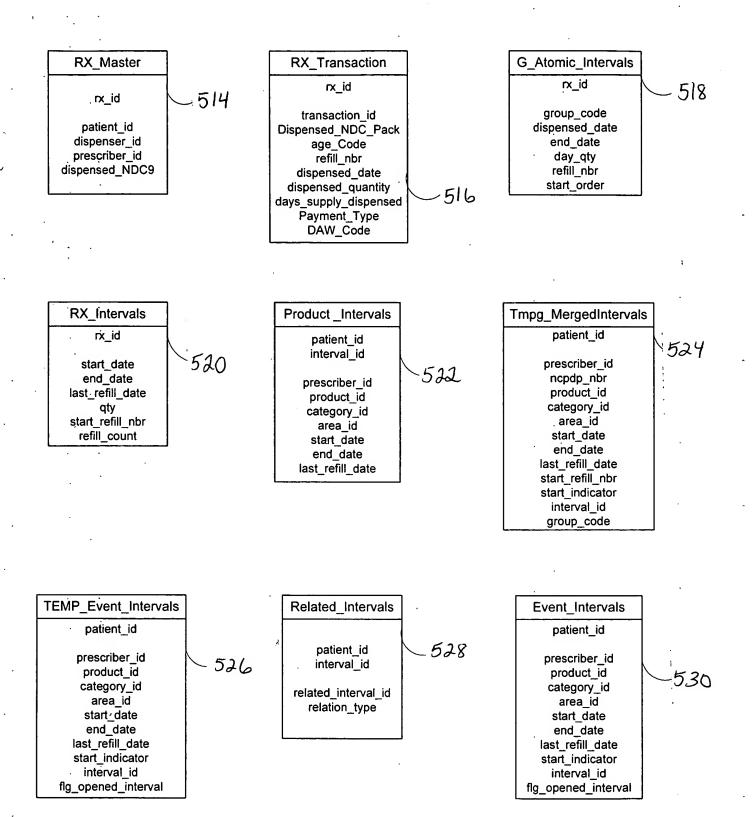


FIG. 5a

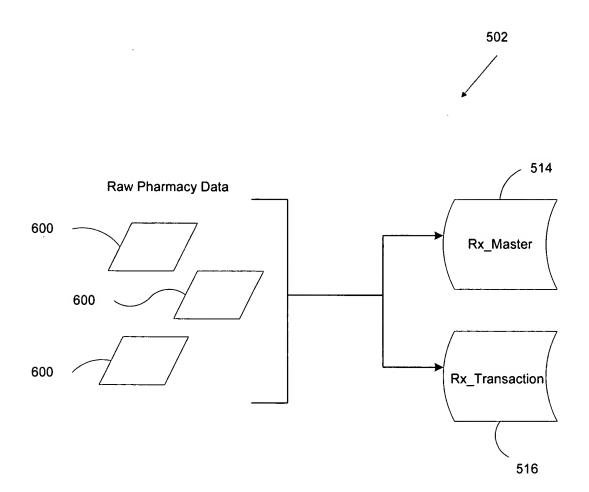


FIG. 6

		RX_Master	,
Column Name	Data Type	Nuti Option	Description
rx_id			Primary key. Keys this table to RX_Transaction.
patlent_id			A unique identifier for the current anonymous patient. Details about the patient, including birth year and gender, are stored separately in a Patient table. The Patient table is keyed to this Patient ID; as is the Patient Identifier used by the Dispenser for this patient.
dispenser_id			A unique identifier which indicates the pharmacy that dispensed the product to the patient. Dispenser ID is used to link to the dispenser table contains details about the dispenser/pharmacy including address, chain affiliations, store affiliations and NCPDP number. Currently, the Dispenser ID is the pharmacy's NCPDP number but this may be changed at some point because not all data providers supply NCPDP numbers.
prescriber_id			Identifies the prescribing physician. This is a sequentially generated identifier. The xRef_DEA table provides a look-up between the prescriber_id and the DEA number. In the future, enother "xRef" table will provide a direct map between the prescriber_id and the Dendrite UMP database.
dispensed_NDC9		-	Identifies the product dispensed. The number is the first 9 digits of an 11-digit format National Drug Code (NDC code) The first 5 digits of this number identifies the manufacturer. The next 4 digits provide the manufacturer's product number. Dispensed NDC9 is stored as an integer, thus the leading 0's are implicit. Since the last 2 digits of an 11-digit NDC number just specify a given product's package code, we can safely assume that all prescriptions with the same first 9 digits are, in fact, the same product. Note: Arry product with an NDC code which doesn't follow the NDC11 to NDC9 roll-up cannot be analyzed using ScripMaxIQ. This includes products like medical devices.

	RX_Tr	ansaction	
Column Name	Data Type	Null Option	Description
rx_id	INTEGER	NOT NULL	Primary key. Keys this table to RX_Master.
transaction_id	DECIMAL(11,0)	NOT NULL	Uniquely identifies the current purchase transaction. Since prescription IDs aren't required for consortium data, this id is derived by combining the four elements which make up rx, id as well as refill_no and dispensed_date.
Dispensed_NDC_Package_Code	SMALLINT		Holds the last 2 digits that had been removed to create the <i>Dispensed_NDC9</i> number from the current prescription's 11-digit NDC Code.
REFILL_NBR	SMALLINT		This is the refill sequence number from the original prescription. The first full prescription has a refill number of 0.
dispensed_date	DATE FORMAT 'YYTY-MM-DD'	NOT NULL	Specifies the date that the current transaction occurred.
dispensed_quantity	DECIMAL(10,2) COMPRESS 30.00		Indicates the number of dosages (pills, capsules, etc.) that were dispensed.
DAYS_SUPPLY_DISPENSED	SMALLINT COMPRESS 30		Shows the number of days that this dispensed medication is scheduled to last, i.e., 60 pills @ 2 per day = 30 days. There are values for days_supply_dispensed which don't match the day supply but indicate other things. For example, a value of "98" or "99" indicates that a given product was dispensed on an "as needed" basis.
Payment_Type	VARCHAR(I) CHARACTER SET LATIN NOT CASESPECIFIC		Specifies the form of payment used to purchase this medication, i.e., cash, medical insurance or Medicare.
DAW_Code	VARCHAR(2)	CHARACTER SET LATIN NOT CASESPECIFIC)	Shows whether the dispenser provided the exact product specified on the prescription or a substitute.

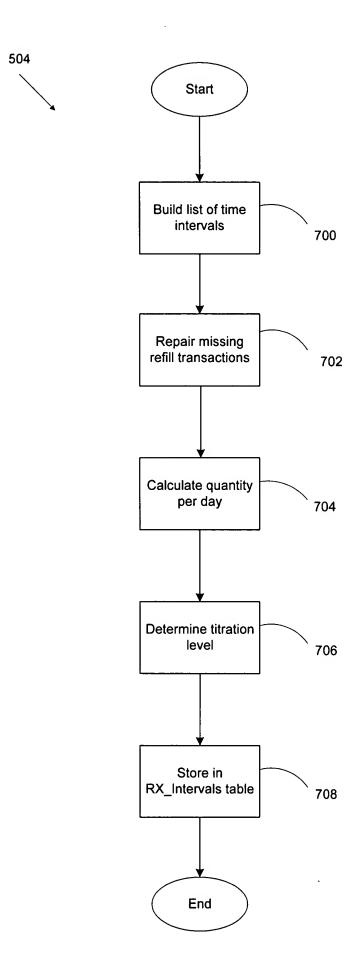


FIG. 7

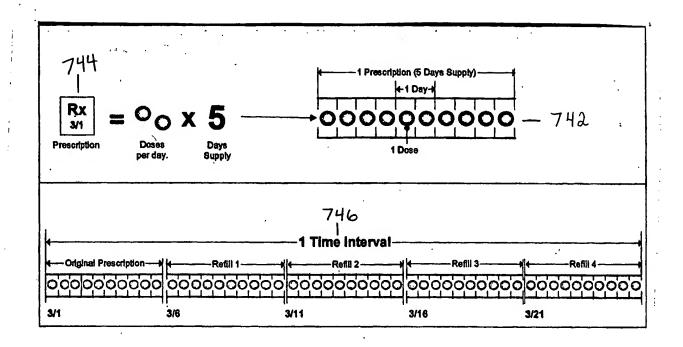


FIG. 7a

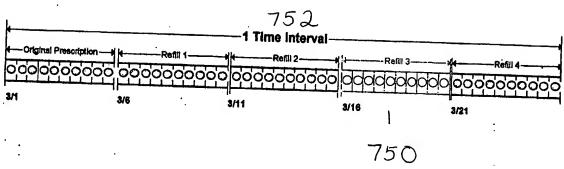


FIG. 7b

· · · · · · · · · · · · · · · · · · ·		RX_Interva	ai .
Column Name	Data Type	Null Option	Description
rx_id			Primary Key.
start_date			Indicates the start of the current refill's treatment cycle.  Calculated from the Rx purchase date.
end_date			Indicates the end of the current refill's treatment cycle. Calculated by adding the days supply of the medication to its purchase date.
last_refill_date			last_refill_date is the last date within this interval that the the patient physically refilled an Rx for the same product. The actual date the patient stopped taking the product will be sometime between this date and end_date, which is last_refill_date plus days_supply taken from the last refill (which could be different from the days_supply for all previous refills on a prescription).
qty			Refers to quantity per day of the medication. This is a fractional number.
start_refill_nbr			Stores the refill number of the earliest transaction in

FIG. 7c

710 Rx Transaction Table Entries

Rx_id	Transaction_Id Dispensed no	ဍ	Refill no	Dispensed	Dispensed	Days	Payment Type	DAW
714		package code		Date	QTY	Supply	,	
69,814,736	469,814,736 1,442,997,754	80	2	2000-01-28	09	30	${f T}$	0
69,814,736	469,814,736   787,315,098	80	3	2000-06-01	09	30	$\mathbf{I}$	0
59,814,736	469,814,736   627,226,368	80	7	2000-01-03	30	15	L	0
59,814,736	469,814,736   469,814,736	80	0	2000-12-11	09	30	T	0
59,814,736	469,814,736   633,143,033	80	1	2001-01-30	09	30	T	0

712
Corresponding RX Interval Records

Rx_id 714	Start_date	End_date	Last_refill_date	Qty	Refill_count	Start_refill_nbr
469,814,736	2000-01-28	2000-07-18	2000-07-03	2.00		
469,814,736	2000-12-11	2001-02-30	2001-01-30	2.00		

FIG. 7d

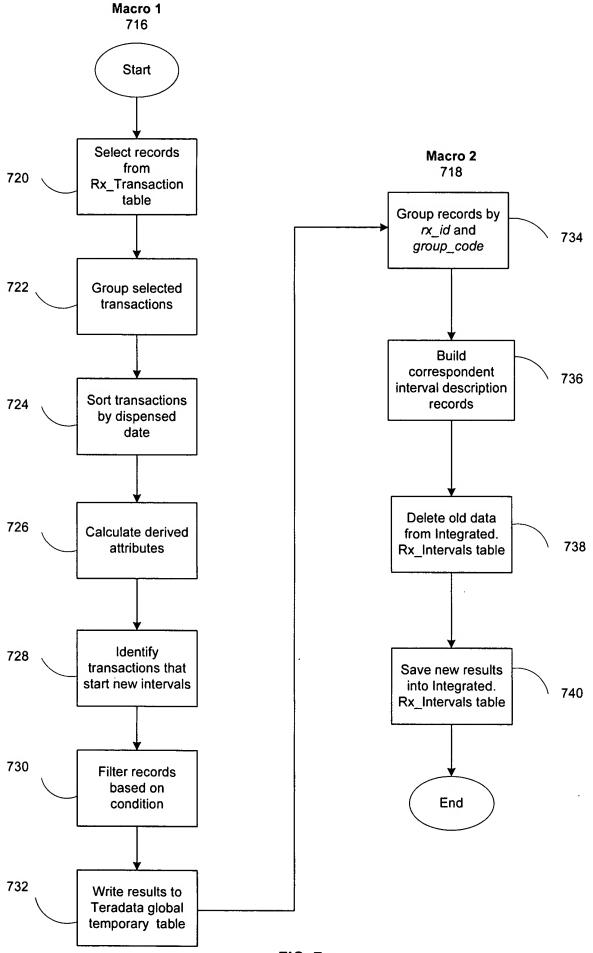


FIG. 7e

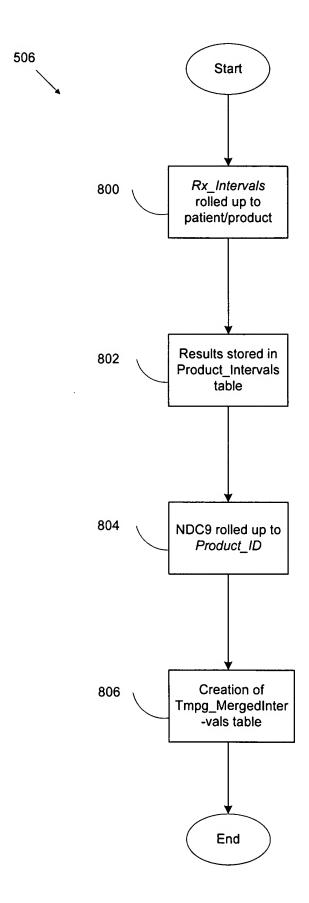


Fig. 8

	Pro	oduct_inter	vais
Column Name	Data Type	Null Option	Description
patient_id .			pattent_td and interval_td are combined to create the
interval_id ·		Small int	primary key. tnterval_td is a small int and restarts for each patient.
prescriber_td			Identifies the prescribing physician. This is a sequentially generated identifier. The xRef_DEA table provides a look-up between the prescriber id and the DEA number. In the future, another "xRef" table will provide a direct map between the prescriber_id and the Dendrite UMP database.
; product_id			Corresponds to a combination of a unique product trade name and classification from NDDB. Every unique combination is given a product ID. Product IDs can also be custom-defined. Custom-defined product have negative product IDs.
category_id			Category_ID is the Therapeutic Category that this product belongs to. This is a narrow grouping of products. Products within the same Therapeutic Category are considered generally equivalent to one another, in other words they compete amongst each other. The Category_ID corresponds to the class_id part of a product's Generic Product Identifier (GPI) in the MDDB Database. Classes can also be custom-defined.
area_id			Identifies the Therapeutic Area that this product belongs to. This is a broad grouping of comparable products. That's to say, products between which switch events are possible. If two products are not in the same Therapeutic Area, then they aren't considered switch candidates.
start_date			Indicates the start of the current refill's treatment cycle.  Calculated from the Rx purchase date.
end_date			Indicates the end of the current refill's treatment cycle.  Calculated by adding the days_supply of the medication to start_date.

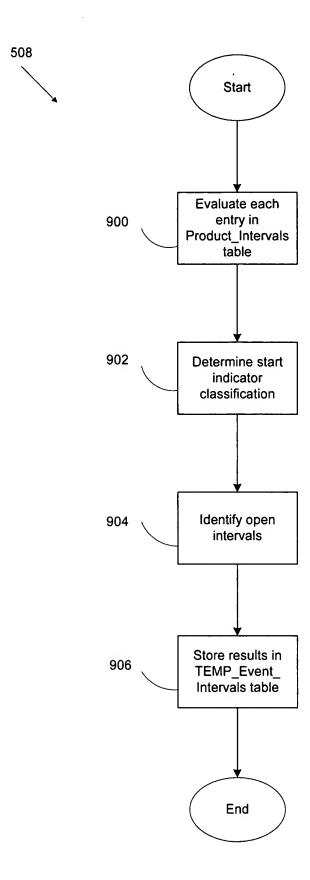
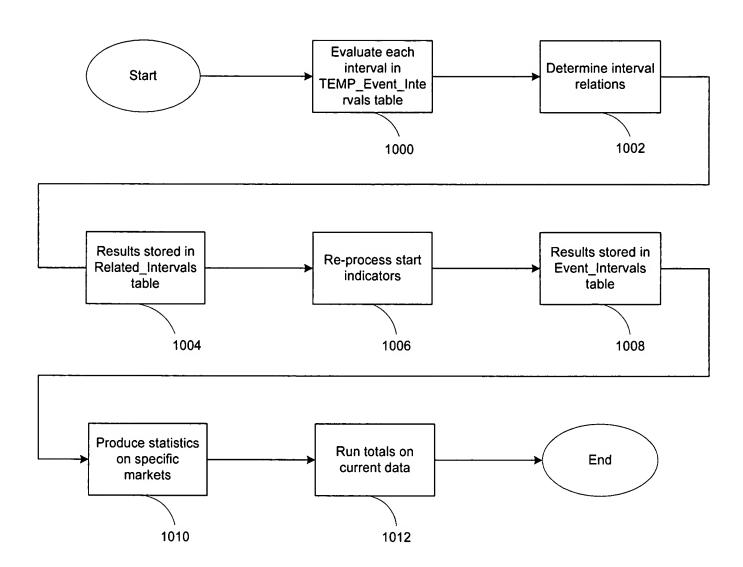
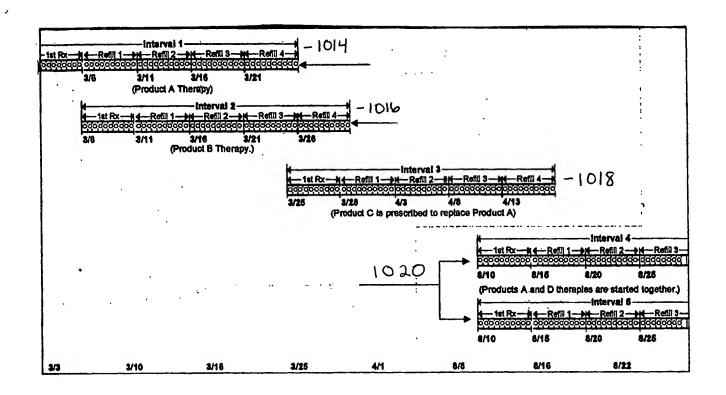


FIG. 9

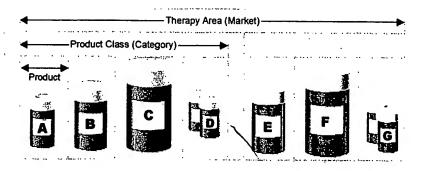
Value	Name	Description
T	Area Start	First time the patient has taken any product in this therapeutic area
M	Category Start	First time the patient has taken any product in this therapeutic category
В	Product Start	First time the patient has taken this product
		The patient is taking this product after not taking this product anytime in
R	Restart	the previous 90 days
X	Intermittent	None of the above conditions met. Indicates intermittent use

FIG. 9a





F1G.10a



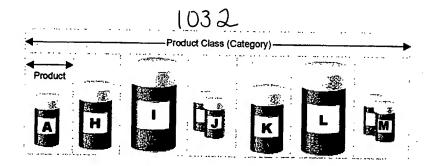
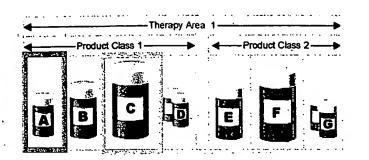
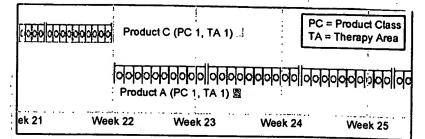
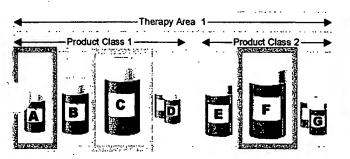
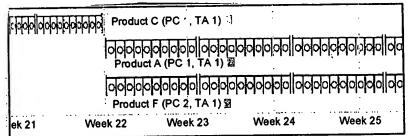


FIG. 10b

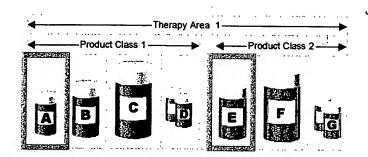






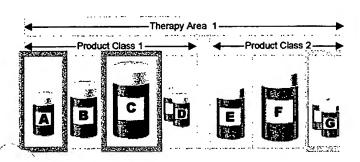


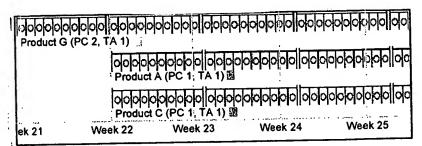
1036



Product E (PC 2, TA 1) 型
ek 21 Week 22 Week 23 Week 24 Week 25

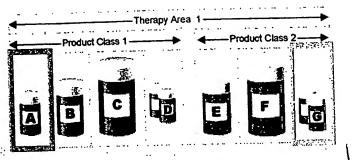
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104D

FIG. 10c

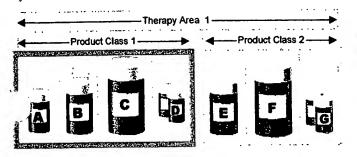


Product G (PC 2, TA 1) 1

Opposition of the product A (PC 1, TA 1) 1

ek 21 Week 22 Week 23 Week 24 Week 25

1042



Product E (PC 2, TA 1)

Product F (PC 2, TA 1)

Product F (PC 2, TA 1)

Product F (PC 2, TA 1)

Product A (PC 1, TA 1)

ek 21

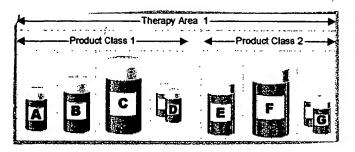
Week 22

Week 23

Week 24

Week 25

1044



Product X (PC 12, TA 22)

Product X (PC 32, TA 21)

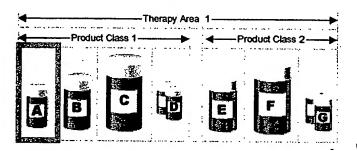
Product X (PC 32, TA 21)

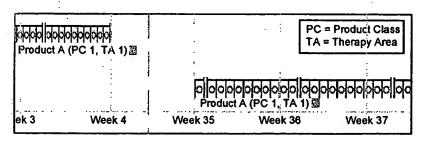
Product X (PC 32, TA 21)

Product A (PC 1, TA 1)

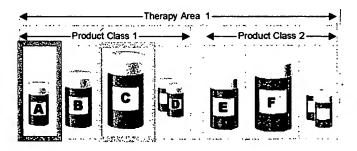
ek 21 Week 22 Week 23 Week 24 Week 25

1046

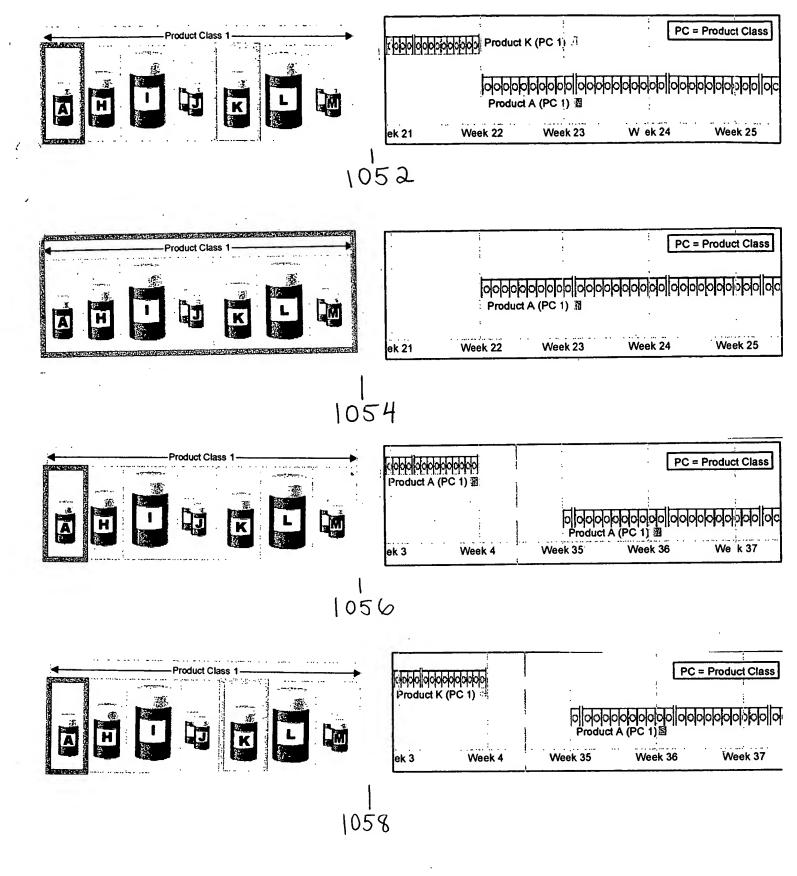




1048



1050 FIG. 10c cont.



F1G.10d

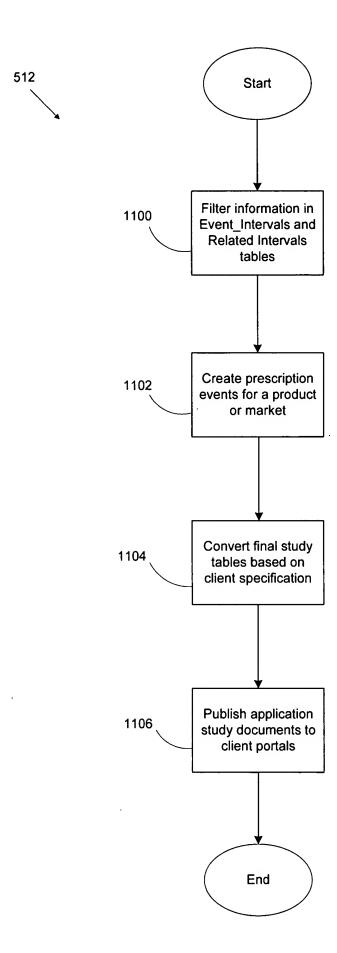


FIG. 11

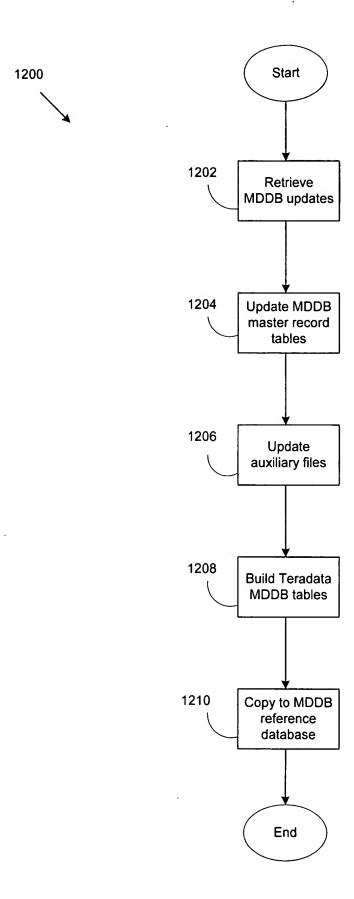


FIG. 12

# T radata MSA G graphy tabl

### CONGRESSIONAL\_DISTRICT

state\_code district\_code

congressman\_first\_name congressman\_last\_name party\_affillation office\_address phone\_nbr internet\_address

#### L\_STATE

state\_code

state\_name fips\_code contact\_indicator

#### X\_REF\_DMA\_STATE

dma\_code state\_code

### L\_DESIGNATED\_MARKET\_AREA

dma\_code market\_area

# METROPOLITAN\_STATISTICAL\_AR

statistical\_area\_code

statistical\_area\_type consolidated\_msa\_code population\_tevel\_code state\_code metropolitan\_area\_name

## METROPOLITAN\_TERRITORY

oity postal\_code state\_code

county\_name
county\_fips\_code
area\_code
time\_zone
daylight\_savings\_time
latitude
longitude
statisticat\_area\_code
dma\_code
preferred\_postat\_code
postat\_code\_type

#### L\_POPULATION\_LEVEL

population\_level\_code

description

### L\_PREFERRED\_POSTAL\_CODE

preferred\_postat\_code

description

42

### L\_POSTAL\_CODE\_TYPE

postal\_code\_type

description

FIG. 13

ScripM	axic				and the second s	6
intelligence for Tar	geted Actio	n			DENDRITE	1
STORY NO.			47		Client Market Logi	
Client Market:	** View	w All Markets				
		Lane Vol.		Did .	Description	
Jpdate Cancel	260	Antipsychotics	TA	04-22-2003 10:25:55 AM	Summarization - Therapy .	1
Edit	258	Multiple Scierosis	sc	04-17-2003 10:58:38 AM	Summarization - Single Class	l
dit	238	Schering Plough Antihistamines	sc	04-17-2003 01:49:31 AM	Summarization - Single Class	
dit	102 .	ARB Combinations (Single Class)	sc	04-09-2003 08:30:00 PM	Manually .	
edit	101	ARB (Single Class)	8C	04-09-2003 06:00:00 PM	Manually	
Edit	100	Antihypertensive	TA	04-09-2003 05:31:00 PM	Manually	
dit	139	HMG CoA Reductase Inhibitors (Single Class)	8C	04-03-2003 04:00:00 PM	Manualty	
dit	88	Glaucoma (Therapy Area)	TA	04-03-2003 02:00:00 PM	Manually	
dit	39	Hyperlipidemia (Therapy Area)	TĄ	04-03-2003 12:30:00 PM	Manually	
dit	52	Proton Pump Inhibitors	8C	03-12-2003 10:34:22 AM	All products from Class ID 492700. Market Definition from MDDB.	
iit	51	Osteoporosis		03-10-2003 10:43:00 AM	All Products from Classes: Classids 300420, 300430, 300440, 300450, 300530. All merged together on ClassiD 3004. All market definitions from MDDB.	ı
ia.	49	HMG CoA Reductase	sc	02.08.2002	Classids 394000 and 394099 from teradata merged into class id 3940 (HMGCoa Reductase inhibitors and HMG CoA Reductase inhibitors Combination). All market	

F16.14.

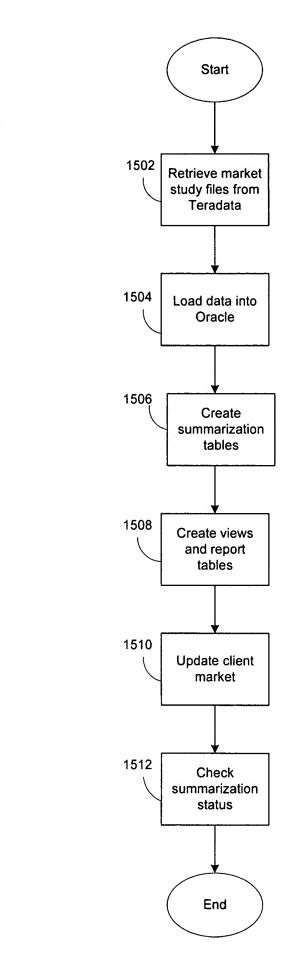


FIG. 15

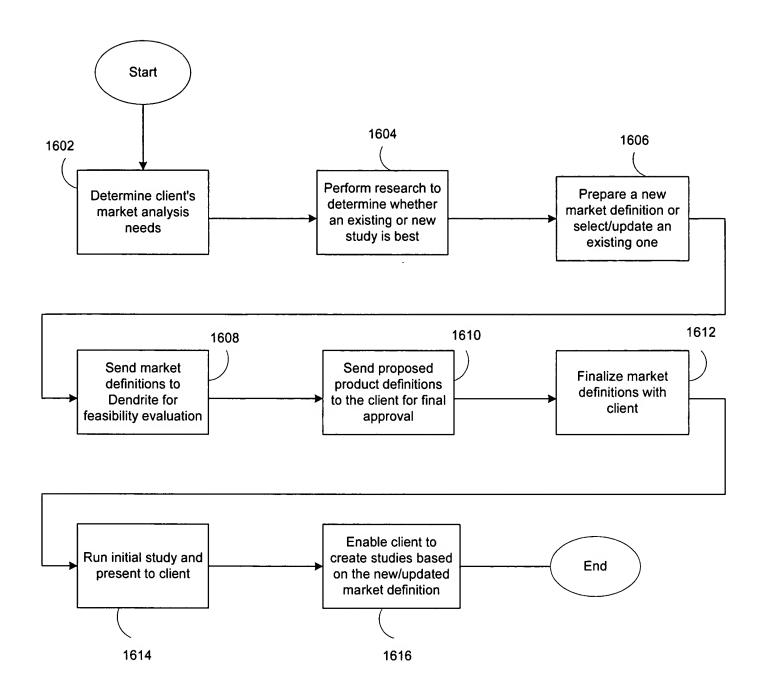


FIG. 16

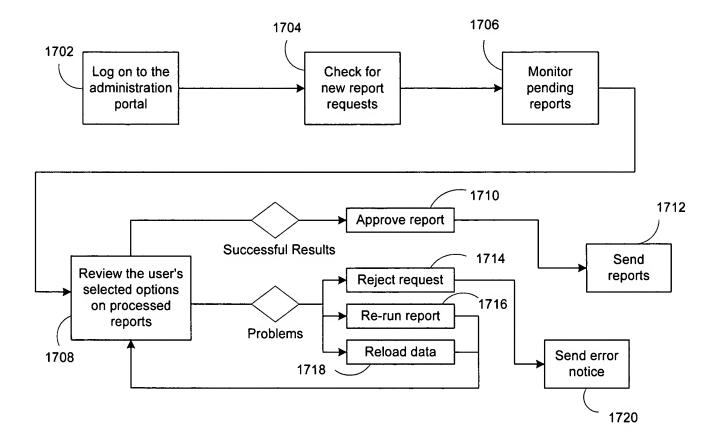


FIG. 17

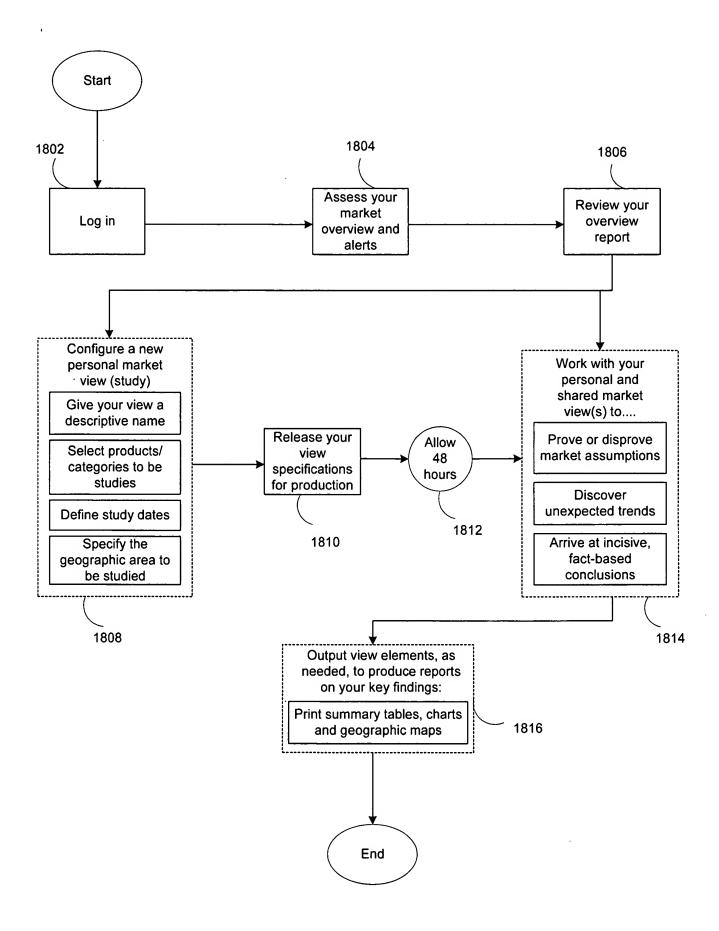
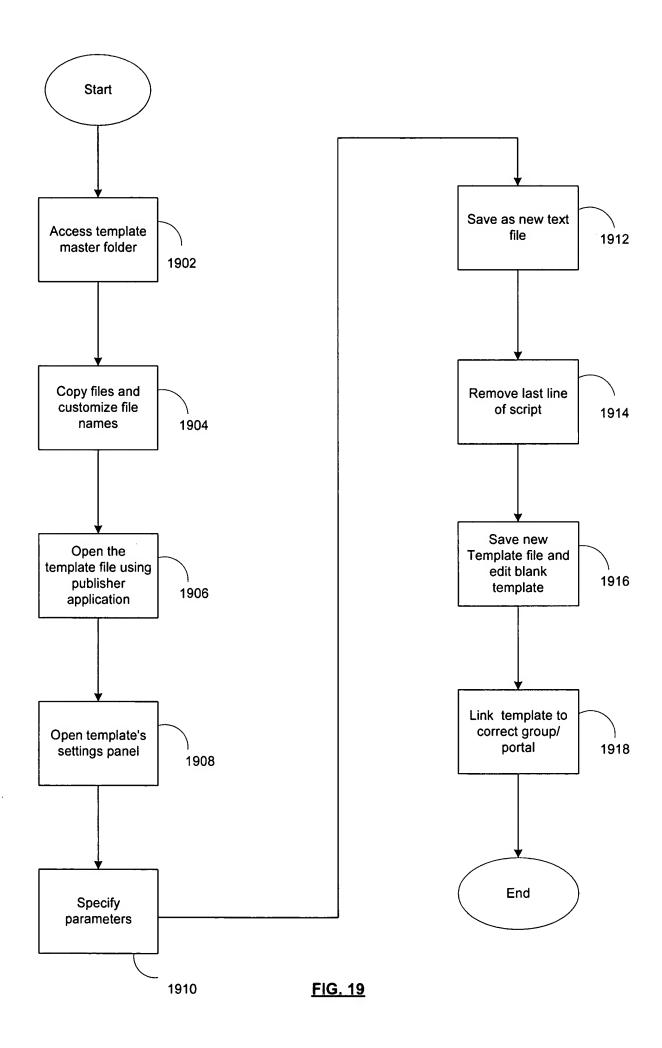
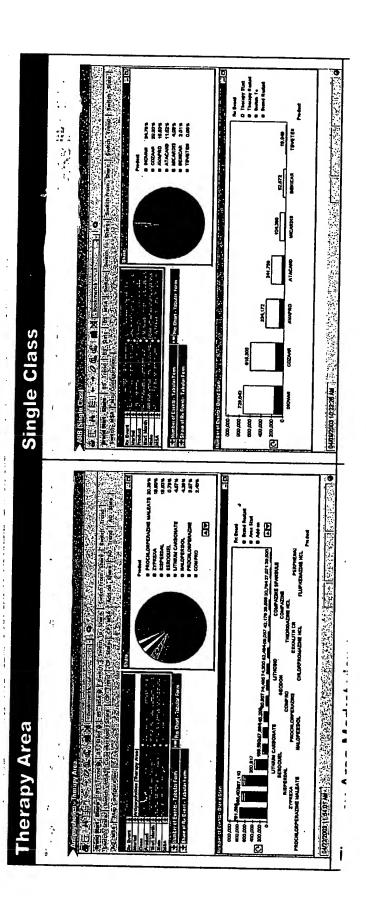
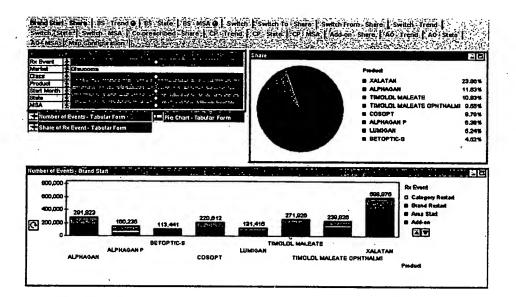


Fig. 18





F16. 20a



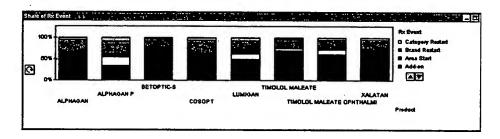
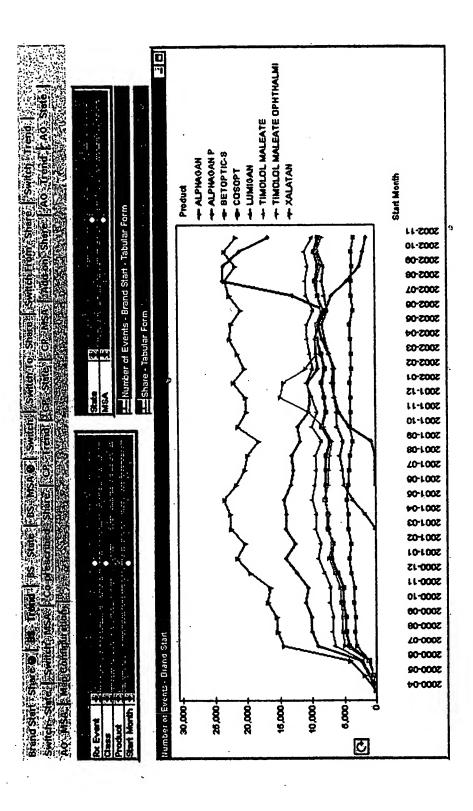


FIG. 20b



F16 20C

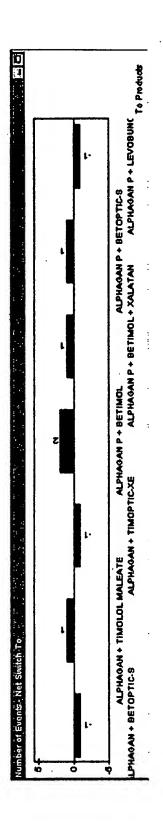
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nd <b>©</b>   BS-Stade   <b>BS-MSA</b>   Switch   Switch To-Shate   Switch From Shate   Switch - Iteind   Co-prescribed - Share   CP-Trend   CP-State   Co-prescribed - Share   GO-Trend   AO-State	Morth (2) (2) (3) (4) (5) (5) (6) (7) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	
end <b>©</b>   BS-State   <b>BS-MSA</b>   Switch   Switch To-Shate   Switch From Share   Switch - Trend   Co-prescribed - Share   CP-Trend   CP-MSA   Add:on-Share   AO-Trend   AO- n	4,566.27 4,067.83 1,117.87 1,117.	2.577.29
nde   <b>BS. MSA</b>   S ed-Share   CP. Tr	\$ 5 C C	10,787
Brand Start : Share.	enis - Brand Start  bothing MSds  ka  Besob, CA PMSA  D-VA-WV PMSA  SA  SA  EBris, OH PMSA	Houston, TX PMSA

F1G. 20e

Brand Start - Share | 88 : Trend | 85 : State | 85 : MSA | Switch | Switch To - Share | Switch From Share | Switch - Trend | 6 | Switch - Share | Switch - State | Switch - Share | Copiesscribed | Share | CP - Trend | CP - Share | CP - MSA | Add-on - Share | Ad - Trend | AD - State | AO - MSA | Map configuration |

	The same was a second of the same and		
	一十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二	Start Month	
P			
		M8A S T T T T T T T T T T T T T T T T T T	
		Number of Events - Ret Switch to - Tabular Form	
lumber of Events - Switch			10 × 10
SERION PRODUCTS S. @ MAHADAN + TRUDIOL MALENTE	ALPHAGAN P + BETTAGL	ALPHADAN P + BETMOL + XALITAN ALPHADAN P + BETOPTIC: \$	17.5
TIMOLOL MALEATE			
			-

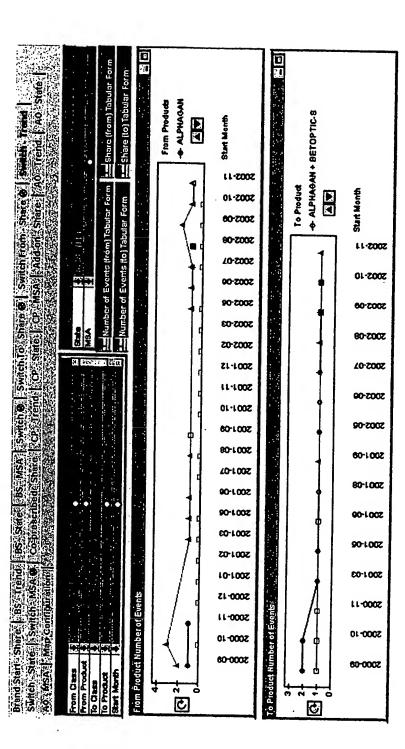


F16.20f

0.84% 2.52% # TIMOLOL MALEATE 0.84% B TRAVATAN From Products B XALATAN Share - Switch MSA F = Number of Events - Switch - Tabular Form To Product Start Month

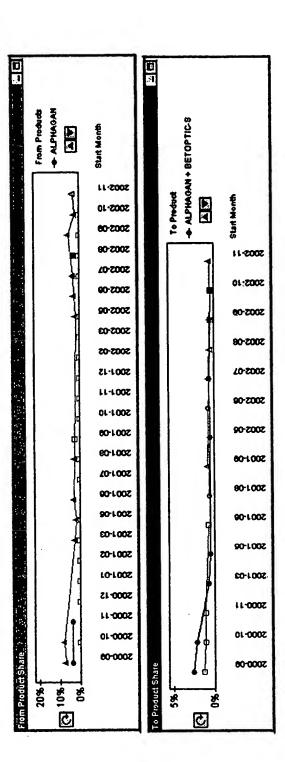
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F16,200



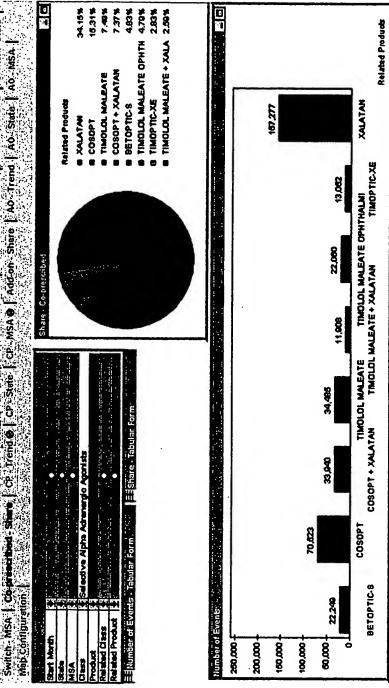
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F16.20h



F16.20i

Brand Start. Share | BS. Trend | BS. Stete | BS. MSA | Switch | Switch To-Share | Switch from Share | Switch Trend | Switch State | Switch MSA | CO. Presented | Ao. Trend | Ao. MSA | CO. Presented | Ao. Shate | Ao. MSA | CO. Share | Ao. MSA | CO. MSA | C



F16.201

Brand Start. Share. | BS. Trend | BS. State. | BS. HISA | Switch | Switch To, Share | Switch From Share | Switch Trend | Switch | State | Spine | Switch | State | Switch | Sw D 14.64% 0.24% 44.48% 4.08% TIMOLOL MALEATE OPHTH 6.59% 4.00% 3.30% 0 B COSOPT + XALATAN P TIMOLOL MALEATE ■ LEVOBUNCILOL HCL XALATAN 800'08 ■ TIMOPTICXE BETOPTICS - XALATAN To Products ■ COSOPT LEVOBUNOLOL NCL TIMOLOL MALEATE OPHTHALM TIMOLOL MALEATE TIMOPTICXE 0,374 Humber of Events。 1975年 1988年 10,817 Share . Add On 12,086 3,082 Number of Events - Tabular Form COSOPT + XALATAN Selective Apra Advenancio Aporista COSOPT 28.116 BETOPTICS 0.400 160,000 ₽ 100,000 90,000

F16.20K

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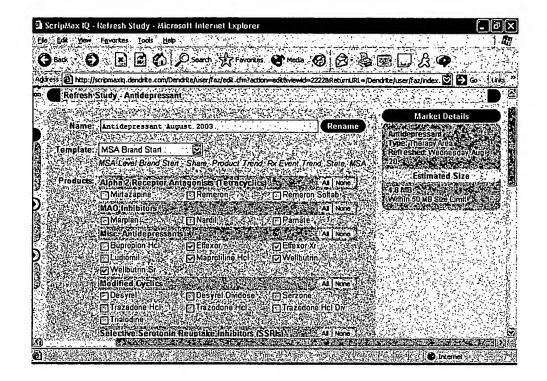
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Brand Start Share | 85 Trend | 85 State | 85 MSA | Switch To Share | Switch From Share | Switch Trend | Switch State | Switch Share | Switch Trend | Switch State | Switch Share | AO Trend | AO Trend | AO State | AO STATE

	≦∃State Population Values. ∃∃MSA Population Values:		Atomite		Adomatic	The Boundary Anomalo
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	color schen			Scharle	Behavior nadc	Validity

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**FIG. 21** 

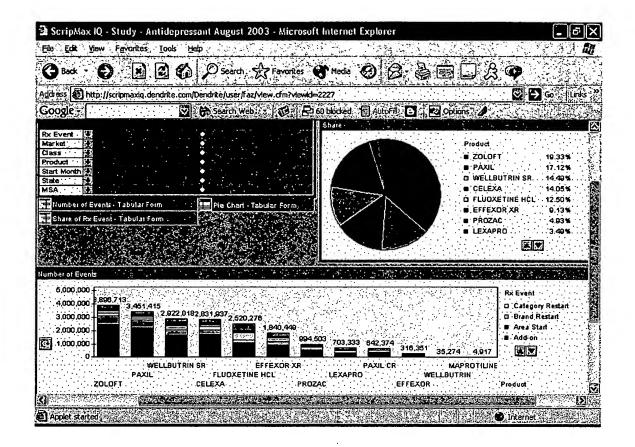


FIG. 22

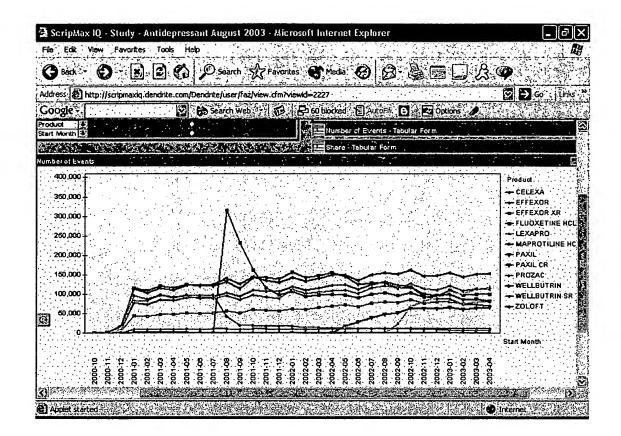
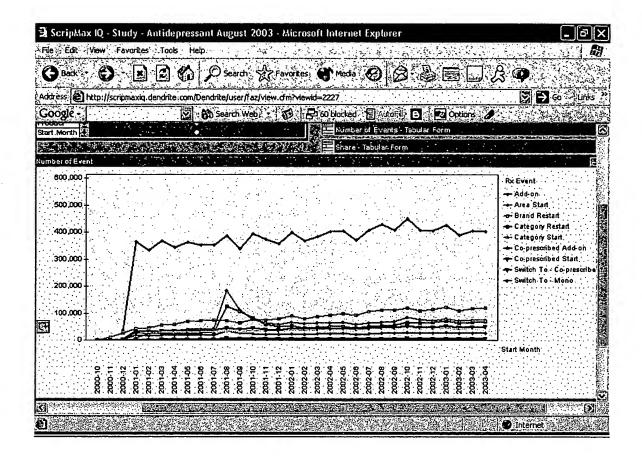
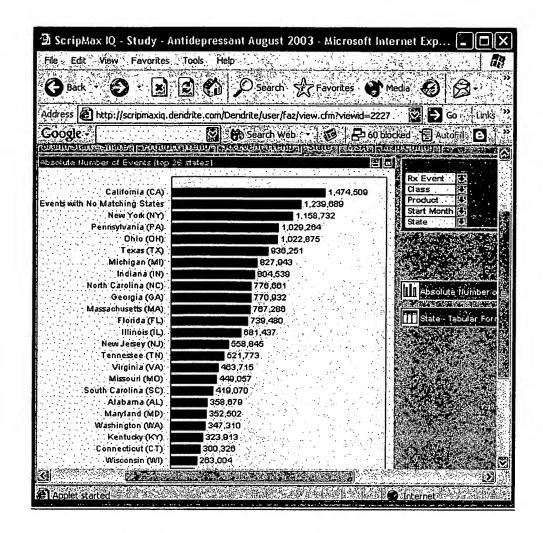


FIG. 23



**FIG. 24** 



**FIG. 25**